# OPERATING INSTRUCTIONS

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#### **Operating Instructions**

#### **MACHINE SPECIFICATION SHEET**

1. CAUTION: In order to ensure correct safety and operation, this machine must be

installed and maintained by an authorised Service Engineer.

2. CAUTION: Should any cover or safety interlock be damaged, the machine must not

be used until service repairs have been completed.

3. CAUTION: This machine must be grounded. Wire colors in the power cord are:

110-120V 220-240V Connect to:
Green Green/Yellow Ground (Earth)
White Blue Neutral
Black Brown Live (Line)

4. CAUTION: This machine must not be used if the power cord is damaged. It must be

replaced with a similar power cord:

UK Part no. 162-210 EURO Part no. 162-311 US Part no. 162-321

5. CAUTION: For continued protection against risk of fire, replace with the same type

and rating of fuse. The fuse rating and type for this machine is:

110-120V T6.3A 250V Part no. 135-106 220-240V T3.15A 250V Part no. 135-103

6. Model Details:

Model name: Pressure Sealer

Model number: AS900

Input voltage: <u>110-120V @ 60Hz</u> <u>220-240V @ 50Hz</u>

Input current: 6 Amps 3 Amps

Input power: 720 Watts 720 Watts

Sound output: 80dBa 80dBa

(measured at 1 meter from the cover and 1.6 meters from the ground)

Weight: 390lbs (176kg) - unpackaged

460lbs (210kg) - packaged with accessories

Lifting or handling must only be carried out by competent persons using appropriate means.

7. The use for the machine is pressure sealing documents.

Distributor and Service contact:



#### **Operating Instructions**

#### **DONNEES TECHNIQUES DE LA MACHINE**

1. **ATTENTION:** Afin de garantir un fonctionnement en toute sécurité, cette machine

doit être installée et entretenue par un technicien agréé.

2. ATTENTION: Si le couvercle ou le mécanisme de blocage de sécurité est

endommagé, ne pas utiliser la machine tant que les réparations n'ont

pas été effectuées.

3. ATTENTION: Cette machine doit être raccordée à la terre. Les fils de couleur du

câble d'alimentation sont:

110-120V 220-240V Connecté:

Vert Vert/Jaune à la terre (masse).

Blanc Bleu au neutre. Noir Brun à la tension.

4. ATTENTION: Cette machine ne doit pas être utilisée si le câble d'alimentation est

endommagé. Il y a lieu de le remplacer par un câble similaire:

**UK** N° de pièce 162-210 **EURO** N° de pièce 162-311 **US** N° de pièce 162-321

5. ATTENTION: Pour ne pas compromettre la protection contre les risques d'incendie,

remplacer par un fusible de même type at de mêmes caractéristiques

nominales:

110-120V T6.3A 250V N° de pièce 135-106 220-240V T3.15A 250V N° de pièce 135-103

6. **Spécifications:** 

Nom du modèle: Pressure Sealer

Numéro du modèle: AS900

Tension d'entrée: <u>110-120V à 60Hz</u> <u>220-240V à 50 Hz</u>

Courant d'entrée: 6A 3A

Puissance d'entrée: 720W 720W

Niveau de bruit: 80 dBA 80 dBA

(mesuré en insérant un seule feuille dans une enveloppe à une distance

de 1 mètre du capot le plus proche et à 1,6 mètre du sol).

Poids: 176kg (390lbs) déballée

210kg (460lbs) avec accessoires

Le levage ou la manipulation de la machine ne peut être effectué que par des personnes qualifiées utilisant l'outillage approprié.

7. Cette machine est conçue tout spécialement pour fermer avec la pression les documents.

#### 1.1 TECHNICAL SPECIFICATION

Machine type: Medium volume pressure sealer

**Speed:** Variable, up to 8500 documents per hour

(based on 81/2" x 11" 'Z'-folded documents)

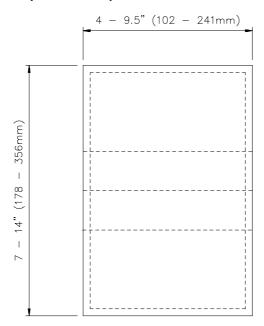
**Volume to a maximum of:** 15,000 documents per day

70,000 documents per week

250,000 documents per month

3 million documents per year

#### **Document dimensions (folded flat):**



#### **Electrical Specification:**

 230v
 115v

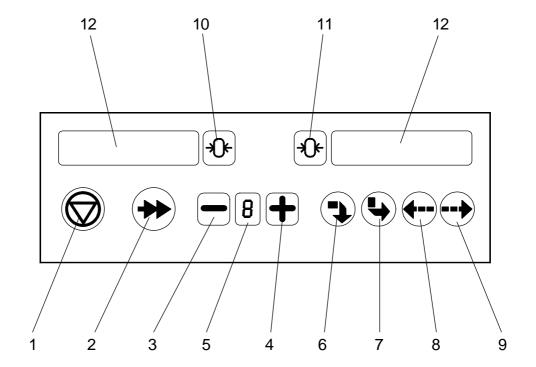
 Current
 3A
 6A

 Fuse
 T3.15A
 T6.3A

**Sound Level:** 80 dBA, measured at 1 metre from nearest cover and

1.6m from the ground.

#### 1.2 CONTROL PANEL LAYOUT



- 1. Stop button
- 2. Start button
- 3. Speed decrease button
- 4. Speed increase button
- 5. Speed indicator
- 6. Setup button
- 7. Hand feed button
- 8. Jog reverse button
- 9. Jog forward button
- 10. Zero reset (in-count) button
- 11. Zero reset (out-count) button
- 12. Display panels

A detailed description of each button function is given in the following section.

## **Operating Instructions**

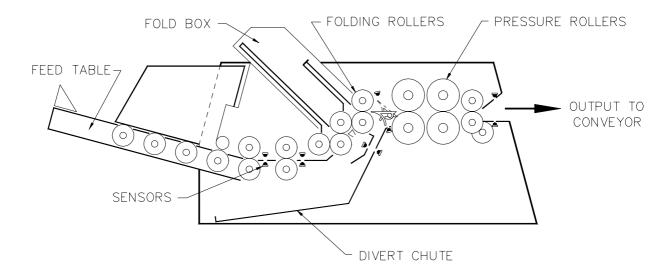
#### 1.3 BUTTON EXPLANATION

- 1.
- **Stop button:** Allows documents currently passing through machine to continue to output, then halts operating cycle.
- 2.
- **Start button:** Starts machine into continuous running, and also cancels any errors which may be indicated after the cause of the problem has been cleared by the operator.
- 3.
- **Speed decrease button:** Decreases speed in steps down to 0, shown on speed indicator display.
- 4.
- **Speed increase button:** Increases speed in steps up to 9, shown on speed indicator display.
- 5. **8**
- **Speed indicator:** Indicates speed in steps from 0 to 9 (max.)
- 6.
- **Setup button:** Feeds through a single document in order to calibrate document length and weight. This is for double document detection. Document is diverted before sealing to enable fold lengths to be checked.
- 7.
- **Hand feed button:** Allows single document to be fed through pressure rollers. <u>Note:</u> document must be pre-folded by hand, and placed in folder bypass chute.
- 8.
- **Jog reverse button:** "Jogs" document back through machine in small steps. Used for clearing jams. <u>Note:</u> after operating, there is a 2 second pause before button can be operated again.
- 9.
- **Jog forward button:** "Jogs" document forward through machine in small steps. Used for clearing jams. <u>Note:</u> after operating, there is a 2 second pause before button can be operated again.
- 10.
- **Zero reset (in-count) button:** Zeroes counter display for documents fed in (machine must be stopped). <u>Note:</u> count will maintain until zero reset is pressed, even when machine is stopped or switched off.
- 11. **(+)**
- **Zero reset (out-count) button:** Zeroes counter display for documents fed out (machine must be stopped). <u>Note:</u> count will maintain until zero reset is pressed, even when machine is stopped or switched off.
- 12. **B888 Display panels:** Displays in or out count, and also error messages.

# **Operating Instructions**

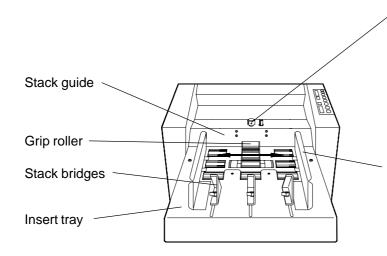
#### 1.4 MACHINE LAYOUT DIAGRAM

The following diagram shows the main parts of the AS900 Pressure Sealer. Full details of any adjustments or setting required for the parts are shown in Section 2.1 onwards.



#### 2.1 MACHINE SETUP AND OPERATION

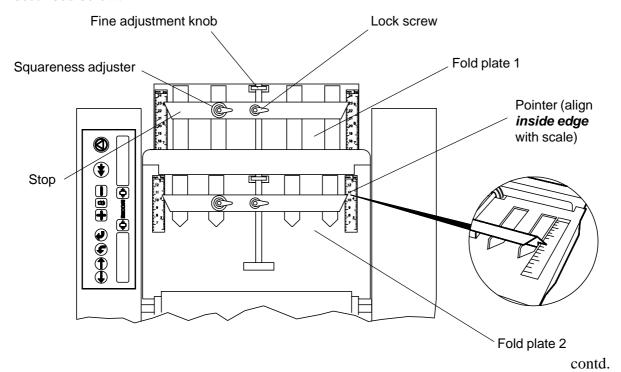
- 1. Plug in machine, switch on at power switch and release emergency stop button.
- 2. Adjust the separator gap to suit the document form, as shown below.



Turn the separator adjustor until there is sufficient gap between the grip roller and the pick-up roller below it to allow one form only to pass through. This is achieved by moving the form back and forth between the rollers until resist- ance is just felt and the rollers lightly grip the form.

Centrally place a form in the insert tray and move both side guides to leave a gap of 1/16" (1-2mm) either side of the form. Note: guides will self center.

3. Establish fold type and length required, raise the folder cover and set the fold plates as described below:





## **Operating Instructions**

The fold plate stops are adjusted by loosening the lock screws, sliding the stop to the required position as indicated by the pointer against the scale, and retightening the lock screws. A fine adjustment is provided by turning the knob shown. This will adjust the fold position by small amounts if a running test shows this to be needed.

Additionally, the squareness of the stop can be adjusted by loosening the squareness adjuster lock screw and turning the knurled cam knob below it. This may be required if running tests reveal that the documents are being folded 'skewed'. Retighten the lock screw after any adjustment is made.

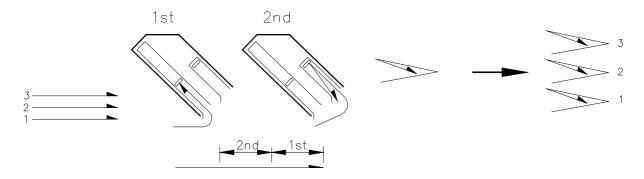
The scales accord with the exact measured position of the required fold on the document, and the *inside edge* of the pointer is aligned with the scale measurement (see diagram on previous page). For example, if the first fold is required at 4" (102mm) down from the leading edge of the document, set fold plate 1 at this position. The crease then becomes the leading edge for the second fold position, so if the second fold is required at 4½" (114mm) from the crease, set fold plate 2 at this position. Note that if the squareness adjuster has been moved at any time, the pointer position will change, and this will have to be compensated for when measuring fold positions. Running tests will reveal to what extent.

The fold plates are removable and are retained by clips. If the document requires only a single center fold, slide out fold plate 2. Turn it round the other way and also turn it over, then slide it back into position. This then acts as a blanking plate and the document will bypass it. Set the stop of fold plate 1 to half the length of the document.

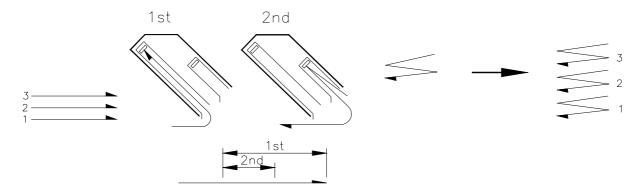
The three types of fold which may be used are shown overleaf:

Below are shown the three types of fold which may be used:

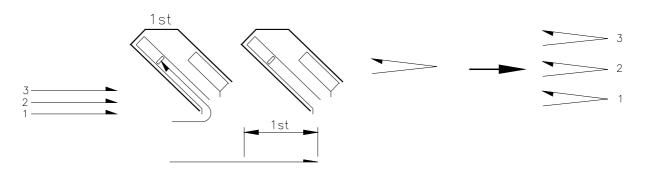
## 1. Letter (or Wallet) Fold



## 2. Accordian (or 'Z') Fold



## 3. Single (or Half) Fold



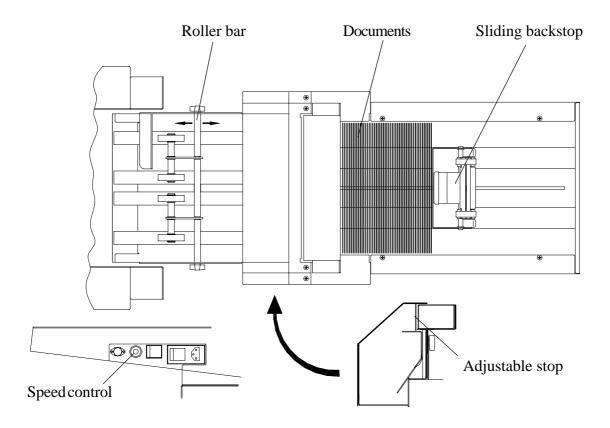
FOLD STYLE	FORM DEPTH	TOP PANEL	MID. PANEL	BOT. PANEL	FORMS LOADED INTO HOPPER	FOLD PLATE 1	FOLD PLATE 2	FINAL ADDRES
V	11"	5 1/2"	N/A	5 1/2"	Address Panel Down & Trailing	5 1/2"	Blocked	Down
V	11"	5 1/2"	N/A	5 1/2"	Address Panel Down & Leading	5 1/2"	Blocked	Up
Z	11"	3 2/3"	3 2/3"	3 2/3"	Address Panel Down & Trailing	7 1/3"	3 2/3"	Up
Z	11"	3 2/3"	3 2/3"	3 2/3"	Address Panel Up & Leading	7 1/3"	3 2/3"	Down
С	11"	3 11/16"	3 11/16"	3 5/8"	Address Panel Down - Internal Panel Leading	3 5/8"	3 11/16"	Up
Eccentric C - Ceridian	11"	3 3/4"	3 13/16"	3 7/16"	Address Panel Down - Internal Panel Leading	3 7/16"	3 13/16"	Down
Eccentric Z	11"	4 1/4"	4 1/4"	2 1/2"	Address Panel Down & Trailing	8 1/2"	4 1/4"	Up
Eccentric Z	11"	2 1/2"	4 1/4"	4 1/4"	Address Panel Up & Leading	6 3/4"	4 1/4"	Down
Z	14"	4 2/3"	4 2/3"	4 2/3"	Address Panel Down & Trailing	9 1/3"	4 2/3"	Up
Z	14"	4 2/3"	4 2/3"	4 2/3"	Address Panel Up & Leading	9 1/3"	4 2/3"	Down
Eccentric Z	14"	5 1/4"	5 1/4"	3 1/2"	Address Panel Down & Trailing	10 1/2"	5 1/4"	Up
Eccentric Z	14"	3 1/2"	5 1/4"	5 1/4"	Address Panel Up & Leading	8 3/4"	5 1/4"	Down
Eccentric Z	14"	5 1/2"	5 1/2"	3"	Address Panel Down & Trailing	11"	5 1/2"	Up
Eccentric Z	14"	3"	5 1/2"	5 1/2"	Address Panel Up & Leading	8 1/2"	5 1/2"	Down
С	14"	4 11/16"	4 11/16"	4 5/8"	Address Panel Down - Internal Panel Leading	4 5/8"	4 11/16"	Up
Z - Return Envelope	14"	4 2/3"	4 2/3"	4 2/3"	Address Panel Down & Trailing	9 1/3"	4 2/3"	Up
Z - Return Envelope	14"	4 2/3"	4 2/3"	4 2/3"	Address Panel Up & Leading	9 1/3"	4 2/3"	Down
C - Ret. Env. (Xplor-97)	14"	4 3/8"	4 13/16"	4 13/16"	Address Panel Down & Trailing	4 3/8"	4 13/16"	Down
Double V - Ret. Env.	14"	6 3/4"	N/A	7 1/4"	Address Panel Down & Trailing	6 3/4"	3 5/8"	Down

#### Notes:

Forms feed from **bottom** of stack by friction. First fold is **up** the vertical plate. Second fold is **up** the vertical plate. There is **no** nesting feature.

## **Operating Instructions**

4. Set the rollers and adjustments of the High Capacity Output Conveyor as shown below:



Set the roller bar so that the leading edge of the document reaches the nip of the roller while the form is still being fed out of the machine. This will provide grip against the conveyor belt and feed the forms into the stacker. Adjust the speed control so that the forms are overlapping each other by about half their depth as they travel along the top surface.

Slacken the lockscrews at each end of the adjustable stop and slide it so that there is 3 - 4mm clearance above the leading edges of the documents as they are fed into the upright position. As the documents stack up on the output side, the sliding backstop will automatically increment to allow the stack to expand. When the backstop reaches the end of the track, the machine will stop to allow the documents to be removed from the track. After removal, push the backstop back to its home position by lifting the rollers using the green latch. Press the Stop and then the Run button on the machine control panel to resume operating.



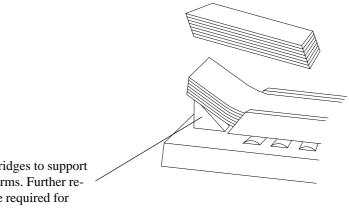
# **Operating Instructions**

5. When setting up for the first time, load one document and press the setup button to
begin calibration cycle. A message [ONF] [RLon] the display panel will request confirmation
that you wish to calibrate. Press again to confirm. A message [AL] will be momen-
tarily displayed and the document will be fed. The double document and form length sensors will
measure the length and average thickness of the document. This will act as a gauge for all future
documents of that size, and hence is only done once until the document size is changed. The gauged
document will be ejected into the divert chute. At the end of a successful calibration cycle, the
message [AL] PASS will be displayed. In the event of a calibration failure, the relevant
error message will be displayed. (See section 4.1).

**Note:** If the 'Auto-calibrate' DIP switch on the CPU circuit board has been set, the machine will automatically enter the setup mode either after power-up or when re-starting after hopper empty condition. Setting of the switch is not an Operator function - it must be set by a Customer Service Engineer.

## **Operating Instructions**

6. Place a stack of documents in the insert tray. Forms must be orientated according to fold type and print direction. Ensure that the leading edges of the stack of forms are against the stack guide.



Adjust the stack bridges to support the backs of the forms. Further readjustment may be required for reliable feeding.

- 7. Set the required speed using the speed increase) or (speed decrease) buttons. The speed increments in steps 0-9, as shown on the indicator panel between the two buttons. The speed may be varied whilst machine is running.
- 8. Now that form calibration, fold plates and speed are all set, press the start button and the documents will begin feeding. Note that the count of the documents fed in and fed out is displayed on the left and right display panels respectively

When the run of documents has finished, either or both of the count displays may be zeroed by pressing 'in count' or 'out count' buttons

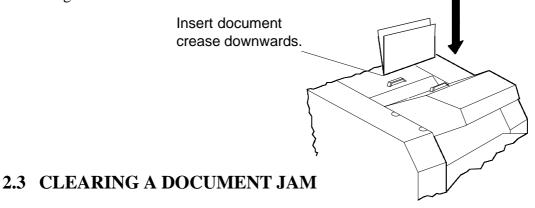
9. When the document run has finished (or the feeder tray runs out) the machine will stop operating after about 3 seconds and the message **Fror FRI** will show on the display. Press the stop button to clear the display.

NOTE: IN THE EVENT OF ANY EMERGENCY, OR TO STOP THE MACHINE FOR ANY OTHER REASON, PRESS THE RED EMERGENCY STOP KNOB ADJACENT TO THE CONTROL PANEL

#### **Operating Instructions**

#### 2.2 HANDFEED OPERATION

If required, a single document may be hand fed for sealing only. First fold the document as desired (see previous section) and place it in the folder bypass chute immediately in front of the folder cover. Press the handfeed button and the folded document will pass through the sealing rollers.



A document jam may be caused by a number of conditions, such as a damaged or crumpled edge, incorrect fold etc. Whatever the cause, a jam will result in the machine stopping automatically, and an error message will be shown on the display panel.

To free the jammed document, switch the machine off, raise the folder and feed roller covers to ascertain the position of the jammed form. This will determine whether the form should be moved forwards or backwards to clear the rollers for retrieval. Close the covers, switch back on and press the jog forward or jog backwards buttons as required. This will operate the machine in short, slow 'spurts' to clear an edge of the damaged document. Raise the covers again and pull the freed document out. It may be necessary to repeat this operation more than once until the damaged document is fully clear.

# NOTE: THE MACHINE WILL NOT RUN WITH THE COVERS OPEN, DUE TO SAFETY MICROSWITCHES

Access to the outfeed roller area can be gained by removing the guide/static brush carrier.

Replace before running machine.

Outfeed guide fixings.

#### **Operating Instructions**

#### 2.4 DOUBLE DOCUMENT CONDITION

If more than one document is fed at one time, such as if two are stuck together, they will not pass through the sealing rollers, but will be diverted to the divert chute. The machine will stop, and an error message **Fror FR3** will appear on the display. The diverted document can be retrieved from the divert chute opening at the rear end of the machine. This is the default condition.

The machine can also be set for an alternative double document condition. In this mode, when a double document is fed, it will be directed to the divert chute and the machine will carry on operating normally. The diverted document will not register on the count display. If a second double document is then fed immediately afterwards, the machine will stop and the error message **Fror FR3** will appear on the display. This alternative mode is selected via a DIP switch on the CPU board, and should only be set by a Customer Service Engineer.

Note that in both modes, pressing the start button will restart the machine and clear the display, which will then revert back to document count.

If several double documents occur in a short space of time, the cause should be investigated. It may be that that the separator is incorrectly set (see section 2.1, para 2) or that the stack of documents needs 'rifling' for proper separation.

#### 2.5 SUPERVISOR MODE

The Supervisor Mode will allow the display of the total machine running time to date. The total forms count to date can also be displayed. Press the stop and jog-forward buttons simultaneously to enter the mode. Successful entry into the mode will be confirmed by the display: SUP

Press the jog-forward button again to show the total hour count to date (to within 1/10th hour) in the following format on the display:



# **Operating Instructions**

Press the jog-forward button again to show the stacker pulse delay time in seconds (the example display shows ½ second delay time). Pael 00050 The delay time can be adjusted by pressing the  or buttons.
Press the jog-forward button again to show the stacker pulse length time in seconds (the example display shows 0.8 seconds length time). PLEn [000,80] The length time can be adjusted by pressing the  buttons.
Press the jog-forward button again to cycle back to the <b>SUP</b> display.
Press the jog-forward button again to adjust the pulse delay of the High Capacity Conveyor. The message PdEL non appears on the display, where n.nn is the time in seconds, adjusted in 10ms steps by pressing the for buttons.
Press the jog-forward button again to adjust the pulse length of the High Capacity Conveyor. The message Ptfn appears on the display, where n.nn is the time in seconds, adjusted in 10ms steps by pressing the for buttons.
Both Pulse delay and Pulse length are used to adjust the movement of the Conveyor relative to the machine in order to control the looseness of the folded insert stack.
Press the stop  button to exit Supervisor Mode.

## **Operating Instructions**

#### 3.1 OPERATOR'S TROUBLESHOOTING GUIDE

1. Documents not feeding.

Possible cause: Possible remedy:

Separator gap incorrectly set Adjust separator as in section 2.1, para. 2

2. Slow feeding of documents

Possible cause: Possible remedy:

Feed rollers need cleaning Clean all rubber rollers as in section 3.2

3. Documents jam in folder.

Possible cause: Possible remedy:
i) Side guides incorrectly set i) Reset side guides

ii) Documents incorrectly stackedii) Check forms and re-stackiii) Curled or damaged edges oniii) Remove damaged documents

document

4. Documents incorrectly folded.

Possible cause: Possible remedy:

i) Fold lengths set too long or short i) Re-measure fold lengths and re-adjust as shown

in section 2.1, para. 3

ii) Side guides set too wide ii) Reset side guides

iii) Documents out of square ('skewed') iii) Adjust squareness of stop as shown in section

2.1, para. 3

5. Documents not sealing

Possible cause: Possible remedy:

i) Defective adhesive on document
i) Test documents from a different batch

ii) Sealing rollers incorrectly set ii) Contact service department

6. Repeated double document condition

Possible cause: Possible remedy:

i) Separator gap incorrectly set i) Adjust separator as in section 2.1, para. 2

ii) Documents sticking together ii) 'Rifle' document stack



## **Operating Instructions**

7. Double documents fail to divert

Possible cause: Possible remedy:

i) Documents jamming in diverter i) Check edges of documents for curling or

damage

ii) Diverter not working ii) Solenoid malfunction - contact Service Dept.

8. Double document will not set

Possible cause: Possible remedy:

Documents already held in hold point Open covers and remove offending document. If

necessary, use 'jog' buttons as described in section

2.3

9. Documents jamming on output conveyor

Possible cause: Possible remedy:

Roller position on conveyor set Reset roller as shown in section 2.1, para. 4

incorrectly

10. Bad folding or jamming in folder

Possible cause: Possible remedy:

Folder rollers need cleaning Clean folder rollers as in section 3.2

11. Error message showing on display panel when there are no documents in machine

Possible cause: Possible remedy:

i) Dirty sensors i) Clean all sensors. Refer to sections 3.2 for

sensorpositions

ii) Cover(s) not properly closed ii) Check both top covers are fully closed

12. Forms jamming behind backstop on High Capacity Conveyor

Possible cause: Possible remedy:

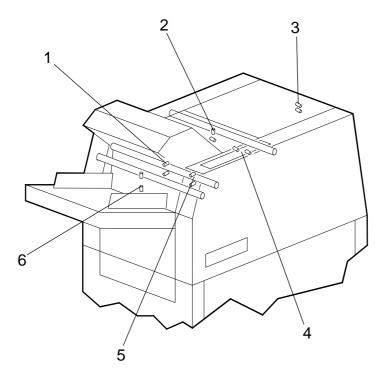
Adjustable stop incorrectly set Ensure stop is not set too low (see section 2.1)

## **Operating Instructions**

#### 3.2 OPERATOR MAINTENANCE

After a period of running, especially if the machine is heavily used, the sensors will tend to become obscured with paper dust. This may lead to erratic operation of the machine, and so the sensors must be regularly cleaned. This particularly applies if the machine appears to be malfunctioning in any way, and cleaning of the sensors should always be carried out before alerting the Service Department of any faults. The sensors should always be cleaned before starting a long continuous machine run.

The locations of the sensors are illustrated below:



- 1. Folder Input Sensors
- 2. Folder Output Sensors
- 3. Output Sensors

- 4. Divert Sensors
- 5. Doubles Detect Sensors
- 6. Folder Hold Point Sensors

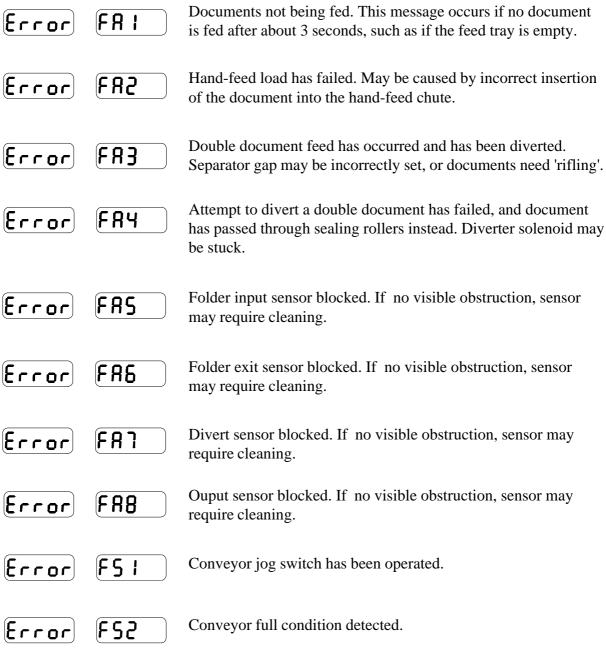
#### **ROLLER CLEANING**

At the same time that the sensors are cleaned, all visible rubber rollers and feed wheels should also be cleaned. Ensure that the roller and wheels are cleaned round their full circumference.

## **Operating Instructions**

#### 4.1 CONTROL PANEL ERROR MESSAGES

If any of the following error messages occur, do not attempt to continue the run, but switch off the machine and take the remedial action stated. If this or any other obvious solutions do not clear the fault, the service department must be contacted.



## **Operating Instructions**

Error I AL Document may be damaged and stuck in diverter. Error **285** Document jammed in feeder rollers. Clear jam before continuing. Error LAY. Document jammed in folder rollers. Clear jam before continuing.

Diverter has actuated, but document has not passed through.

Error PAL Document jammed in sealer rollers. Clear jam before continuing.

Error Document jammed on conveyor. Clear jam before continuing. JRS

The following messages indicate a machine fault, rather than an operating fault.

OPEn Folder cover open 

[5 OPEn Sealer roller cover open.

FAIL SE 1 Motor has failed to start. Contact the Service Department.

FAIL **SE2** Motor has stalled. Contact the Service Department.

FAIL **SE3** Motor has failed to stop. Contact the Service Department.

# **Operating Instructions**

Of the following three messages in the left hand display panel, any of the five messages shown below may occur in the right hand display.

LSI		Unexpected arrival at a sensor. Remove all documents passing through machine and restart cycle. If message still occurs, contact the Service Department.
<u> </u>		Unexpected departure from a sensor. Remove all documents passing through machine and restart cycle. If message still occurs contact the Service Department.
<b>L53</b>		Document tracking failure. Remove all documents passing through machine and restart cycle. If message still occurs, contact the Service Department.
		Pertaining to folder input sensor.
	2	Pertaining to folder output sensor.
	3	Pertaining to roller sensor.
	4	Pertaining to hold point sensor.
	5	Pertaining to divert sensor.

# **Operating Instructions**

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